

**From:** [Mescher, Jean](#)  
**To:** [Carlos Sanchez/R6/USEPA/US@EPA](#)  
**Cc:** [Shawn Ghose/R6/USEPA/US@EPA](#)  
**Subject:** RE: Injection System at Arkwood  
**Date:** 11/15/2011 11:01 AM

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Carlos,

I will include an evaluation of the results in our next monthly report. The injection system was restarted last Friday, November 11.

Jean

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**From:** Sanchez.Carlos@epamail.epa.gov [mailto:Sanchez.Carlos@epamail.epa.gov]  
**Sent:** Thursday, November 10, 2011 10:41 AM  
**To:** Mescher, Jean  
**Cc:** Ghose.Shawn@epamail.epa.gov  
**Subject:** RE: Injection System at Arkwood

Jean,

I am not disputing that EPA agreed to stopping the injection system operation to see what rebound in concentration would occur. I believe that the results from the past three reading indicate that the concentrations are continuing to increase with time. What would be interesting to note is the rain or lack of rain that occurred during this period, especially days prior to the sampling event. Will an evaluation be done or a report prepared to document this event? CAS

Carlos A. Sanchez  
Chief, AR/TX Section  
Region 6, Superfund Division (6SF-RA)  
sanchez.carlos@epa.gov  
(214) 665-8507

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**From:** "Mescher, Jean" <Jean.Mescher@McKesson.com>  
**To:** Shawn Ghose/R6/USEPA/US@EPA, Carlos Sanchez/R6/USEPA/US@EPA  
**Date:** 11/10/2011 10:20 AM  
**Subject:** RE: Injection System at Arkwood

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For more specifics about the injection system operation, prior to the April 12, 2011 meeting requested by Curt Grisham with the EPA and ADEQ, I had recommended to the ADEQ and you that we stop injecting for a period of time so that potential rebound effects could be monitored. During the April 12 meeting, this issue was raised and I said that we had discussed with the agency about turning off the injection system and testing the spring under natural conditions. Curt Grisham said that he thought this was an excellent idea and wanted to know how soon it could be done. I said that we were discussing it at that time. Following the meeting, I informed you orally that we would be shutting off the system after our next sampling round which was conducted on April 19 and injection was discontinued on that day.

**From:** Mescher, Jean  
**Sent:** Wednesday, November 09, 2011 4:13 PM  
**To:** Ghose.Shawn@epamail.epa.gov; Sanchez.Carlos@epamail.epa.gov  
**Subject:** RE: Injection System at Arkwood

Shawn,

For clarification, the treatment system located at New Cricket Spring is operating as designed, i.e. treats water discharging from the mouth of New Cricket Spring to clean-up levels and discharges the treated water at the weir. The pilot injection system was implemented to expedite remediation of the subsurface fracture system in order to achieve overall clean-up in a shorter time period. Over the years, the pilot injection system and its operation have been modified several times to enhance and evaluate remedial progress. Last spring we discussed discontinuing injection in order to evaluate for a potential rebound in concentrations at New Cricket Spring. Following our discussions, injection was discontinued on April 19, 2011. Some rebound has been detected following shut-down of the injection system indicating that residual contamination remains in the subsurface.

Per your request below, the injection system located near the sinkhole will be restarted. We anticipate that the system will be operating within the next 10 days and will inject non-ozonated water.

Please contact me if you need any additional information.

Jean

**From:** Ghose.Shawn@epamail.epa.gov [<mailto:Ghose.Shawn@epamail.epa.gov>]  
**Sent:** Tuesday, November 08, 2011 3:17 PM  
**To:** Mescher, Jean; Sanchez.Carlos@epamail.epa.gov  
**Subject:** Injection System at Arkwood

Jean: An examination of PCP at the New Cricket Spring shows exceedance of clean up values since July 2011. EPA is directing McKesson to re-start injection (treatment) around the sinkhole at Arkwood. Please start resumption of injection at the earliest possible time.

Shawn Ghose  
RPM Arkwood